

## Refine Search

### Search Results -

Terms	Documents
L2 and (morphine or codeine or oripavine or thebaine)	34

**Database:** US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:** L3

### Search History

**DATE:** Tuesday, May 24, 2005 [Printable Copy](#) [Create Case](#)

**Set Name** **Query**  
side by side

**Hit Count** **Set Name**  
result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR*

<u>L3</u>	L2 and (morphine or codeine or oripavine or thebaine)	34	<u>L3</u>
<u>L2</u>	alkaloid\$ and (p450 adj reductase\$)	60	<u>L2</u>
<u>L1</u>	alkaloid\$ same (p450 adj reductase\$)	2	<u>L1</u>

END OF SEARCH HISTORY

S3 5 RD (unique items)  
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    (c) 2005 American Chemical Society  
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    (c) 1998 Inst for Sci Info  
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Set	Items	Description
S1	0	ALKALOID? (S) (P450 REDUCTASE?)
S2	6	ALKALOID? AND (P450 REDUCTASE?)
S3	5	RD (unique items)

Set Items Description  
S1 0 ALKALOID? (S) (P450 REDUCTASE?)  
S2 6 ALKALOID? AND (P450 REDUCTASE?)  
S3 5 RD (unique items)  
>>>KWIC option is not available in file(s): 399

3/3,K/1 (Item 1 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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0012909674 BIOSIS NO.: 200100081513  
Indole **alkaloid** biosynthesis in Catharanthus roseus: New enzyme activities and identification of cytochrome P450 CYP72A1 as secologanin synthase  
AUTHOR: Irmler Stefan; Schroeder Gudrun; St-Pierre Benoit; Crouch Nicholas P; Hotze Michael; Schmidt Juergen; Strack Dieter; Matern Ulrich; Schroeder Joachim (Reprint)  
AUTHOR ADDRESS: Institut fuer Biologie II, Universitaet Freiburg, Schaenzlestrasse 1, D-79104, Freiburg, Germany\*\*Germany  
JOURNAL: Plant Journal 24 (6): p797-804 December, 2000 2000  
MEDIUM: print  
ISSN: 0960-7412  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

Indole **alkaloid** biosynthesis in Catharanthus roseus: New enzyme activities and identification of cytochrome P450 CYP72A1 as secologanin synthase

...ABSTRACT: immunohistochemistry that the expression in immature leaves is epidermis-specific. It thus follows the pattern previously established for early enzymes in the pathway to indole **alkaloids**, suggesting that CYP72A1 may be involved in their biosynthesis. The early reactions in that pathway, i.e. from geraniol to strictosidine, contain several candidates for...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... \*\*\*P450 reductase\*\*\* ...  
...indole \*\*\*alkaloid\*\*\* --

3/3,K/2 (Item 1 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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10182966 Genuine Article#: 495ZG No. References: 39  
Title: Multiple forms of NADPH-cytochrome P450 oxidoreductases in the Madagascar periwinkle Catharanthus roseus  
Author(s): Canto-Canche BB; Loyola-Vargas VM (REPRINT)  
Corporate Source: Ctr Invest Cient Yucatan,Unidad Biol Expt,Apdo Postal 87/Cordemex 97310/Yucatan/Mexico/ (REPRINT); Ctr Invest Cient Yucatan,Unidad Biol Expt,Cordemex 97310/Yucatan/Mexico/  
Journal: IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT, 2001, V37, N5 (SEP-OCT), P622-628  
ISSN: 1054-5476 Publication date: 20010900  
Publisher: C A B I PUBLISHING, C/O PUBLISHING DIVISION, WALLINGFORD OX10 8DE, OXON, ENGLAND  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: P450, oxidoreductase (CPR, EC 1.6.2.4): is the redox partner of classical P450-monooxygenases, which have crucial roles in the

metabolism of terpenes, \*\*\*alkaloids\*\*\* , flavonoids, phytoalexins, etc. It becomes evident that, contrary to animals and yeast, various CPR isoforms occur in some plants, although their specific physiological functions ate...

3/3,K/3 (Item 2 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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08790317 Genuine Article#: 329FL No. References: 39  
Title: Detoxication of vinca **alkaloids** by human P450CYP3A4-mediated metabolism: Implications for the development of drug resistance  
Author(s): Yao DG; Ding SH; Burchell B; Wolf CR; Friedberg T (REPRINT)  
Corporate Source: UNIV DUNDEE,NINEWELLS HOSP & MED SCH, BIOMED RES CTR/DUNDEE DD1 9SY//SCOTLAND/ (REPRINT); UNIV DUNDEE,NINEWELLS HOSP & MED SCH, BIOMED RES CTR/DUNDEE DD1 9SY//SCOTLAND/; UNIV DUNDEE,NINEWELLS HOSP & MED SCH, IMPERIAL CANC RES FUND, MOL PHARMACOL UNIT/DUNDEE DD1 9SY//SCOTLAND/; UNIV DUNDEE,NINEWELLS HOSP & MED SCH, DEPT CELLULAR & MOL PATHOL/DUNDEE DD1 9SY//SCOTLAND/  
Journal: JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, 2000, V294, N1 (JUL), P387-395  
ISSN: 0022-3565 Publication date: 20000700  
Publisher: AMER SOC PHARMACOLOGY EXPERIMENTAL THERAPEUTICS, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814-3998  
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Detoxication of vinca **alkaloids** by human P450CYP3A4-mediated metabolism: Implications for the development of drug resistance  
Abstract: Vinca **alkaloids** are important chemotherapeutic agents, and their pharmacokinetic properties display significant interindividual variations, possibly due to CYP3A4-mediated metabolism. We have evaluated the relevance of this...  
...Identifiers--HUMAN CYTOCHROME-P450 3A4; HUMAN LIVER-MICROSOMES; ESCHERICHIA-COLI; HUMAN HEPATOCYTES; P450 REDUCTASE; MULTIDRUG-RESISTANCE; MAMMALIAN-CELLS; RAT HEPATOCYTES; P-GLYCOPROTEIN; CHO CELLS

3/3,K/4 (Item 3 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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08758799 Genuine Article#: 322QG No. References: 37  
Title: Non-coordinated response of cytochrome P450-dependent geraniol 10-hydroxylase and NADPH: Cyt C (P-450) reductase in Catharanthus roseus hairy roots under different conditions  
Author(s): CantoCanche BB; LoyolaVargas VM (REPRINT)  
Corporate Source: CTR INVEST CIENT YUCATAN,UNIDAD BIOL EXPT, AP 87/CORDEMEX 97310/YUCATAN/MEXICO/ (REPRINT); CTR INVEST CIENT YUCATAN,UNIDAD BIOL EXPT/CORDEMEX 97310/YUCATAN/MEXICO/  
Journal: PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY, 2000, V66, P 183-190  
ISSN: 0031-9457 Publication date: 20000000  
Publisher: FUNDACION ROMULO RAGGIO, GASPAR CAMPOS 861, 1638 VICENTE LOPEZ (BA), ARGENTINA  
Language: Spanish Document Type: ARTICLE (ABSTRACT AVAILABLE)  
...Identifiers--SUSPENSION-CULTURED CELLS; PLANT CYTOCHROME-P450; METHYL JASMONATE; INDUCTION; MONOOXYGENASES; PURIFICATION; SEEDLINGS; HYDROXYLASE; **ALKALOIDS**; MEMBRANE

3/3,K/5 (Item 1 from file: 71)

DIALOG(R) File 71:ELSEVIER BIOBASE  
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02931131 2005088037

Characterization of a polyclonal antiserum against the monoterpene monooxygenase, geraniol 10-hydroxylase from *Catharanthus roseus*

Canto-Canche B.B.; Meijer A.H.; Collu G.; Verpoorte R.; Loyola-Vargas V.M.

ADDRESS: V.M. Loyola-Vargas, U. Bioquim. Y Biol. Molec. Plantas, Ctro. de Invest. Cie. de Yucatan, Calle 43 No. 130, Yucatan CP 97200, Mexico

EMAIL: vmloyola@cicy.mx

Journal: Journal of Plant Physiology, 162/4 (393-402), 2005, Germany

PUBLICATION DATE: April 22, 2005

CODEN: JPPHE

ISSN: 0176-1617

DOCUMENT TYPE: Article

LANGUAGES: English SUMMARY LANGUAGES: English

NO. OF REFERENCES: 43

Geraniol 10-hydroxylase (G10H) is a P450 containing enzyme which is the first committed step in the biosynthesis of monoterpene indole alkaloids (MIAs), including the *Catharanthus roseus*-anticancer drugs vinblastine and vincristine. It is thought that G10H has a regulatory role in MIA production. In the present...

DESCRIPTORS:

*Catharanthus roseus*; Cytochrome P450; Geraniol 10-hydroxylase; Hairy roots; Monooxygenase; **P450 reductase**